

FEB 03 2003

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC698

Serial No.: 10/026,994

Applicant: Dunn-Coleman et al.

Filing Date: December 18, 2001

Group: 1633

Page 1 of 7

Date of this Submission: January 30, 2003

RECEIVED
FEB 05 2003
TECH CENTER 1600/2900

US PATENT DOCUMENTS

Examiner's	Document				Sub-	Filing
Initial	Number	Date	Name	Class	Class	Date
mm	4,816,567	3/28/89	Cabilly et al.	530	387	4/8/83
	4,822,516	4/18/89	Suzuki et al.	252	174.12	12/2/87
	6,162,782	12/19/00	Clarkson et al.	510	320	6/5/95
	6,184,018	2/6/01	Li et al.	435	209	5/6/99
	5,648,263	7/15/97	Schulein et al.	435	263	5/30/95
	5,691,178	11/25/97	Schulein et al.	435	209	6/7/95
	5,776,757	7/7/98	Schulein et al.	435	209	5/30/95
	5,475,101	12/12/95	Ward et al.	536	23.74	3/17/93
mm	4,435,307	3/6/84	Barbesgaard et al.	252	174.12	4/23/81

FOREIGN PATENT DOCUMENTS

Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No
mm	GB 2 095 275 A	9/29/82	United Kingdom	—	—	
	GB 2 094 826 A	9/22/82	United Kingdom	—	—	
	WO 91/04673	4/18/91	PCT	—	—	
	1,368,599	10/2/74	United Kingdom	—	—	
mm	0 562 003 B1	9/4/02	EP	—	—	

Examiner

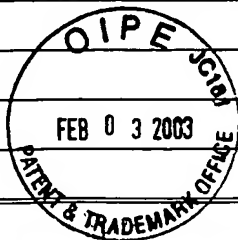
Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC698	Serial No.: 10/026,994
Applicant: Dunn-Coleman et al.	
Filing Date: December 18, 2001	Group: 1633
Page <u>2</u> of <u>7</u>	Date of this Submission: January 30, 2002



RECEIVED
FEB 05 2003
TECH CENTER 1600/2900

OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
<i>mm</i>	Altschul, Stephen F. et al., "Basic Local Alignment Search Tool," J. Mol. Biol. 215:403-410, 1990.
<i>mm</i>	Altschul, Stephen F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," Nucl. Acids Res., vol. 25, pp. 3389-3402, 1997.
<i>mm</i>	Aro, Nina et al., "ACEII, a Novel Transcriptional Activator Involved in Regulation of Cellulase and Xylanase Genes of <i>Trichoderma reesei</i> ," J. Biol. Chem., vol. 276, no. 26, pp. 24309-24314, June 29, 2001.
<i>mm</i>	*Aubert, et al., Ed., p11 et seq., Academic Press, 1988.
<i>mm</i>	*Ausubel, G. M. et al. Current Protocols in Molecular Biology, John Wiley & Sons, New York, NY, 1993.
<i>mm</i>	Baldwin, Don et al., Curr. Opin. Plant Biol. 2(2):96-103, 1999.
<i>mm</i>	Barnett, Christopher et al. "Cloning and Amplification of the Gene Encoding an Extracellular β-Glucosidase from <i>Trichoderma Reesei</i>. Evidence for Improved Rates of Saccharification of Cellulosic Substrates," No vol. date
<i>mm</i>	Baulcombe, D., "Viruses and gene silencing in plants," 100 Years of Virology, Calisher and Horzinek ds., Springer-Verlag, New York, NY 15:189-201, 1999.
<i>mm</i>	Bhikhabhai, R. et al., "Isolation of Cellulolytic Enzymes from <i>Trichoderma reesei</i> QM 9414," J. Appl. Biochem. 6:336-345, 1984.
<i>mm</i>	Brumbauer, Aniko et al., Fractionation of cellulase and β -glucosidase in a <i>Trichoderma reesei</i> culture liquid by use of two-phase partitioning," Bioseparation 7:287-295, 1999.
<i>mm</i>	Carter, Paul et al., "Improved oligonucleotide site-directed mutagenesis using M13 vectors," Nucleic Acids Research, vol. 13, no. 12, pp. 4431-4443, 1985.
<i>mm</i>	Cees, Am. M. et al., "Heterologous Gene Expression in Filamentous Fungi," More Gene Manipulations in Fungi, Bennett and Lasure, ed., pp. 397-428, 1991.
<i>mm</i>	Chen, Huizhong et al., "Purification and characterization of two extracellular β -glucosidases from <i>Trichoderma reesei</i> " Biochem et Biophysica Acta 1121:54-60 (1992)
<i>mm</i>	*Coligan, J. E. et al., eds., Current Protocols in Immunology, 1994- page nos. ?
<i>mm</i>	Collen, Anna et al., Journal of Chromatography A 910:275-284, 2001.
<i>mm</i>	Coughlan, Michael et al., "Comparative Biochemistry of Fungal and Bacterial Cellulolytic Enzyme Systems" Biochemistry and Genetics of Cellulose Degradation, pp. 11-30 1988.
<i>mm</i>	Cummings, C. et al., "Secretion of <i>Trichoderma reesei</i> β -glucosidase by <i>Saccharomyces cerevisiae</i> ," Curr. Genet. 29:227-233, 1996.

Examiner <i>mm</i>	Date Considered 6/20/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449

INFORMATION DISCLOSURE CITATION

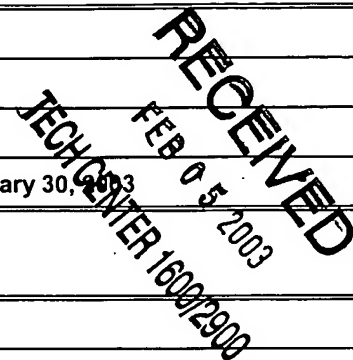
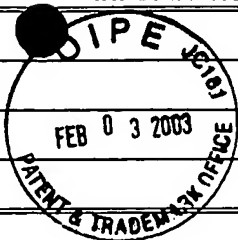
Attorney Docket No.: GC698	Serial No.: 10/026,084
Applicant: Dunn-Coleman et al.	
Filing Date: December 18, 2001	Group: 1633
Pag <u>3</u> of <u>7</u>	Date of this Submission: January 30, 2002

OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
mm2	Dayhoff, M.O. et al., "A Model of Evolutionary Change in Proteins," Atlas of Protein Sequence and Structure, National Biomedical Research Foundation, Washington, D.C., vol. 5, Supplement 3, Chapter 22, pp. 345-352 1978.
mm2	Deutscher, Murray P., "Rethinking Your Purification Procedure," Methods in Enzymology, vol. 182, no. 57, pp. 779, 1990.
?	*Deelittle, R. F., OF URES AND ORFs, University Science Books, CA, 1986. page nos.?
mm2	Ellouz, S. et al., "Analytical Separation of <i>Trichoderma Reesei</i> Cellulases by Ion-Exchange Fast Protein Liquid Chromatography," J. Chromatography 396:307-317, 1987.
	Fields, Stanley et al., "A novel genetic system to detect protein-protein interactions," Nature, 340:245-246, 1989.
	Filho, Edivaldo, "Purification and characterization of a β -glucosidase from solid-state cultures of <i>Humicola grisea</i> var. <i>thermoidea</i> ," Can. J. Microbiol. 42:1-5, 1996.
	Fliess, A. et al., "Characterization of Cellulases by HPLC Separation," Eur. J. Appl. Microbiol. Biotechnol. 17:314-318, 1983.
mm2	Freer, Shelby, "Kinetic Characterization of a β -Glucosidase from a Yeast, <i>Candida wickerhamii</i> ," J. Biol. Chem. vol. 268, no. 13, pp. 9337-9342, 1993.
	*Freshney, R. I., ed., Animal Cell Culture, 1987 Page No.?
mm2	Goyal, Anil et al. "Characteristics of Fungal Cellulases," Bioresource Technol. 36:37-50, 1991.
	Halldorsdottir, S et al., "Cloning, sequencing and overexpression of a <i>Rhodothermus marinus</i> gene encoding a thermostable cellulase of glycosyl hydrolase family 12," Appl Microbiol Biotechnol. 49(3):277-84, 1998.
	Hemmpel, W.H., "The surface modification of woven and knitted cellulose fibre fabrics by enzymatic degradation," ITB Dyeing/Printing/Finishing 3:5-14, 1991.
	Henrissat, Bernard et al., "New families in the classification of glycosyl hydrolases based on amino acid sequence similarities," Biochem. L. 293:781-788, 1993.
	Herr, D. et al., "Purification and Properties of an Extracellular β -Glucosidase from <i>Lenzites trabea</i> ," Europ an Appl. Microbiol. Biotechnol. 5:29-36, 1978.
	Hu, Qianjin et al., "Antibodies Specific for the Human Retinoblastoma Protein Identify a Family of Related Polypeptides," Mol Cell Biol. vol.11, no. 11, pp. 5792-5799, 1991.
	Ilmen, Marja et al., "Regulation of Cellulase Gene Expression in the Filamentous Fungus <i>Trichoderma reesei</i> ," Appl. and Envir. Micro., vol. 63, no. 4, pp. 1298-1306, 1997.
mm2	Jakobovits, Aya, et al., "Production of Antigen-Specific Human Antibodies from Mice Engineered with Human Heavy and Light Chain YACs" Annals New York Academy of Sciences, 764:525-535, 1995.
Examiner	Date Considered
mm2	6/20/03
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
PTO-1449	

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC698	Serial No.: 10/02004
Applicant: Dunn-Coleman et al.	
Filing Date: December 18, 2001	Group: 1633
Page 4 of 7	Date of this Submission: January 30, 2003



OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
mmr	Jakobovits, Aya, "Production of fully human antibodies by transgenic mice," Curr Opin Biotechnol 6(5):561-6, 1995.
D	Jones, Peter et al., "Replacing the complementarity—determining region sin a human antibody with those from a mouse," Nature 321:522-525, 1986.
.	Kawaguchi, Takashi et al., "Cloning and sequencing of the cDNA encoding β -glucosidase 1 from <i>Aspergillus aculeatus</i> ," Gene 173(2):287-8, 1996.
.	Knowles, Jonathan et al., TIBTECH 5, 255-261, 1987.
.	Kohler, G. et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature, vol. 256, pp. 495-499, August 7, 1975
.	Krishna, S. Hari et al., "Simultaneous saccharification and fermentation of lignocellulosic wastes to ethanol using a thermotolerant yeast," Bioresource Tech. 77:193-196, 2001.
.	Kumar, Akhil, et al., "Optimizing the Use of Cellulase Enzymes in Finishing Cellulosic Fabrics," Textile Chemist and Colorist, 29:37-42, 1997.
.	Lehtio, Janne. et al., FEMS Microbiology Letters 195:197-204, 2001.
.	Li, Xin-Liang et al. "Expression of <i>Aureobasidium pullulans xynA</i> in, and Secretion of the Xylanase from, <i>Saccharomyces cerevisiae</i> ," Appl. Environ. Microbiol. 62, no. 1, pp. 209-213, 1996.
.	Linder, Marcus et al., "The roles and function of cellulose-binding domains," Journal of Biotechnol. 57:15-28, 1997
.	Liukkonen, Pere J., et al., "Use of Purified Enzymes in Mechanical Pulping," 1996 Tappi Pulping Conference, pp. 693-696, Nashville, TN.
.	Loftus, Joseph C. et al. "A β_3 Integrin Mutation Abolishes Ligand Binding and Alters Divalent Cation-Dependent Conformation," Science, vol. 245, pp. 915-921, August 24, 1990.
.	Medve, Jozsef et al., "Ion-exchange chromatographic purification and quantitative analysis of <i>Trichoderma reesei</i> cellulases cellobiohydrolase I, II and endoglucanase II by fast protein liquid chromatography," J. Chromatography A 808:153-165, 1998.
.	Nielsen, Henrik et al. "Identification of prokaryotic and eukaryotic signal peptides and prediction of their cleavage sites," Protein Engineering, vol. 10, no. 1, pp. 1-6, 1997.
.	Ohmiya, Kunio et al., "Structure of Cellulases and Their Applications," Biotechnol. Gen. Engineer. Rev. vol. 14, pp. 365-414, 1997.
mmr	Okada, Hirofumi et al., "Molecular Characterization and Heterologous Expression of the Gene Encoding a Low-Molecular-Mass Endoglycanase from <i>Trichoderma reesei</i> QM9414," Applied and Environmental Microbiology, vol. 64, no. 2, pp. 555-563, 1990.

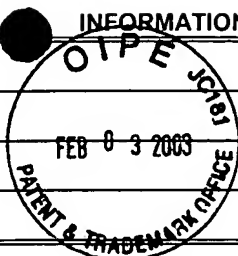
Examiner	Date Considered
mmr	6/20/03

Examiner: Initial if reference considered, whether or not citation is in conformanc with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC698	Serial No.: 10/026,994
Applicant: Dunn-Coleman et al.	
Filing Date: December 18, 2001	Group: 1633
Pag <u>5</u> of <u>7</u>	Date of this Submission: January 30, 2003



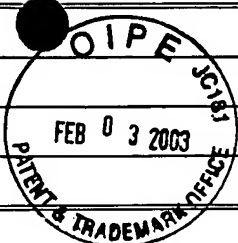
RECEIVED
FEB 05 2003
TECH CENTER 1600/2800

OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
mmol	Ooi, Toshihiko et al., "Complete nucleotide sequence of a gene coding for <i>Aspergillus aculeatus</i> cellulase (Fl-CMCase), Nucleic Acids Research, vol. 18, no. 19, 1990.
	Ortega Natividad et al., "Kinetics of cellulose saccharification by <i>Trichoderma reesei</i> cellulases," International Biodeterioration and Biodegradation 47:7-14, 2001.
	Penttila, Merja et al., "Expression of Two <i>Trichoderma reesei</i> Endoglucanases in the Yeast <i>Saccharomyces cerevisiae</i> ," Yeast vol. 3, pp 175-185, 1987.
	Penttila Merja et al., "Efficient secretion of two fungal cellobiohydrolases by <i>Saccharomyces cerevisiae</i> ," Gene, 63: 103-112, 1988.
	Penttila, Merja et al. "Homology between cellulase genes of <i>Trichoderma reesei</i> : complete nucleotide sequence of the endoglucanase I gene," Gene, 45: 253-263, 1986.
	Pourquie, J. et al., "Scale Up of Cellulase Production and Utilization," Biochemistry and Genetics of Cellulose Degradation, Academic Press Ltd., pp. 71-86, 1988.
	Riechmann, Lutz et al., "Reshaping human antibodies for therapy," Nature, vol. 332, pp. 323-327, 1988.
	Rothstein, Steven J. et al., "Synthesis and secretion of wheat α -amylase in <i>Saccharomyces cerevisiae</i> ," Gene 55:353-356, 1987.
	Saarilahti, Hannu T. et al., "CelS: a novel endoglycanase identified from <i>Erwinia carotovora</i> subsp. <i>carotovora</i> ," Gene 90:9-14, 1990
	Sakamoto, S. et al., "Cloning and sequencing of cellulase cDNA from <i>Aspergillus kawachii</i> and its expression in <i>Saccharomyces cerevisiae</i> ," Curr. Genet. 27:435-439, 1995.
	Saloheimo, Anu et al. "A novel, small endoglucanase gene, <i>eg15</i> from <i>Trichoderma reesei</i> isolated by expression in yeast," Molecular Microbiology, vol. 13, no. 2, pp. 219-228, 1994.
	Saloheimo M, et al., "EGIII, a new endoglucanase from <i>Trichoderma reesei</i> : the characterization of both gene and enzyme," Gene, 63:11-22, 1988.
mmol	Saloheimo, Markku et al. "cDNA cloning of a <i>Trichoderma reesei</i> cellulase and demonstration of endoglucanase activity by expression in yeast," Eur. J. Biochem. vol. 249, pp. 584-591, 1997.
	*Sambrook et al., MOLECULAR CLONING: A LABORATORY MANUAL (Second Edition), Cold Spring Harbor Press, Plainview, N.Y., 1989. <i>Page NOS?</i>
mmol	Schulein, Martin, "Cellulases of <i>Trichoderma reesei</i> ," Methods Enzymol., 160, 25, pp. 234-243, 1988.
	Scopes, Robert et al. "Purification of All Glycolytic Enzymes from One Muscle Extract," Methods Enzymol. 90: 479-91, 1982.
	Shoemaker, S., et al., "Molecular Cloning of Exo-Cellobiohydrolase I Derived from <i>Trichoderma Reesei</i> Strain L27," Bio/Technology, pp. 691-696, 1983.
mmol	Spilliaert Remi, et al., "Cloning and sequencing of a <i>Rhodothermus marinus</i> gene, <i>bglA</i> , coding for a thermostable β -glucanase and its expression in <i>Escherichia coli</i> ," Eur J Biochem. 224(3):923-30, 1994.
Examiner	Date Considered
mmol	6/20/03
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
PTO-1449	

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC698	Serial No.: 10/026,004
Applicant: Dunn-Coleman et al.	
Filing Date: December 18, 2001	Group: 1633
Page <u>6</u> of <u>7</u>	Date of this Submission: January 30, 2003



RECEIVED
FEB 05 2003
TECH CENTER 1600/2900

OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
mmml	Stahlberg, Jerry et al., "A New Model for Enzymatic Hydrolysis of Cellulose Based on the Two-Domain Structure of Cellobiohydrolase I," Bio/Technol. 9:286-290, 1991.
	*Strathern et al., eds. The Molecular Biology of the Yeast <i>Saccharomyces</i> , 1981. Page No. 1
mmml	Suurnakki, A. et al., "Trichoderma reesei cellulases and their core domains in the hydrolysis and modification of chemical pulp," Cellulose 7:189-209, 2000.
	*Tilbeurgh, H. et al., FEBS Lett. 16:215, 1984. ✓ (Has been considered)
	Takashima, Shou et al., "Molecular Cloning and Expression of the Novel Fungal β -Glucosidase Genes from <i>Hemicella grisea</i> and <i>Trichoderma reesei</i> ," J. Biochem. vol. 125, pp. 728-736, 1999.
	Teeri, Tuula T., et al. "Homologous domains in <i>Trichoderma reesei</i> cellulolytic enzymes: gene sequence and expression of cellobiohydrolase II," Gene, 51:43-52, 1987.
	Timberlake, William E. et al., "Organization of a Gene Cluster Expressed Specifically in the Asexual Spores of <i>A. nidulans</i> ," Cell, vol. 1, pp. 29-37, 1981.
	Tomaz, Candida et al., "Studies on the chromatographic fractionation of <i>Trichoderma reesei</i> cellulases by hydrophobic interaction," J. Chromatography A 865:123-128, 1999.
	Tomme, Peter et al., "Studies of the cellulolytic system of <i>Trichoderma reesei</i> QM 9414," Eur. J. Biochem. 170:575-581, 1988.
	Tormo, Jose et al., "Crystal structure of a bacterial family-III cellulose-binding domain: a general mechanism for attachment to cellulose," EMBO J. vol. 15, no. 21, pp. 5739-5751, 1996.
	Tyndall, R.M., "Improving the Softness and Surface Appearance of Cotton Fabrics and Garments by Treatment with Cellulase Enzymes," Textile Chemist and Colorist 24:23-26, 1992.
	Valentino, S.J. et al. "Codon optimization of xylanase gene <i>xynB</i> from the thermophilic bacterium <i>Dictyoglomus thermophilum</i> for expression in the filamentous fungus <i>Trichoderma reesei</i> ," FEMS Microbiology Letters, 190: 13-19, 2000.
	Van Rensburg, Pierre et al., "Engineering Yeast for Efficient Cellulose Degradation," Yeast, vol. 14, pp. 67-76, 1998.
	Verhoeyen, Martine et al., "Reshaping Human Antibodies: Grafting an Antilysozyme Activity," Science, vol. 239, pp. 1534-1536, 1988.
	Warrington, J.A., et al. "A Radiation Hybrid Map of 18 Growth Factor, Growth Factor Receptor, Hormone Receptor, or Neurotransmitter Receptor Genes on the Distal Region of the Long Arm of Chromosome 5," Genomics, vol. 13, pp. 803-808, 1992.
	Wells, J.A. et al., "Importance of hydrogen-bond formation in stabilizing the transition state of subtilisin," Phil. Trans. R. Soc. London A, vol. 317, pp. 415-423, 1986.
mmml	Wells, James A. et al., "Cassette mutagenesis: an efficient method for generation of multiple mutations at defined sites," Gene, vol. 34, pp. 315-323, 1985.

Examiner	mmml	Date Considered	6/20/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Attorney Docket No.: GC698	Serial No.: 10/026,004
Applicant: Dunn-Coleman et al.	
Filing Date: December 18, 2001	Group: 1633
Page <u>7</u> of <u>7</u>	Date of this Submission: January 30, 2003

Examiner's		
Initials	Author, Title, Date, Pertinent Pages, etc.	
mm	Wood, Thomas M., "Properties of cellulolytic enzyme systems," Biochemical Society Transactions, 611 th Meeting, Galway, vol. 13, pp. 407-410, 1985.	
	Wood, Thomas M. et al., "Methods for Measuring Cellulase Activities, Methods in Enzymology, vol. 160, no. 9, pp. 87-116, 1988.	
mm	Zoller, Mark J. et al., "Oligonucleotide-directed mutagenesis using M13-derived vectors: an efficient and general procedure for the production of point mutations in any fragment of DNA," Nucleic Acids Research, vol. 10 no. 20, pp. 6487-6500, 1982.	
Examiner	mm	Date Considered 6/20/13
<p>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		
PTO-1449		